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Appl. No. 10/765,808 Amdt. Dated 10/25/2007 Response to Office Action of 09/07/2007

Attorney Docket No.: N1085-00256 [TSMC2003-0899]

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1 1. (Currently Amended) A plasma etching apparatus comprising a chuck for
- 2 retaining a substrate and hardware that is formed of a material that includes oxygen
- 3 impregnated therein such that said oxygen is released when an etching operation is
- carried out, wherein said hardware comprises a focus ring and at least a portion of said 4
- 5 focus ring substantially continuously extends directly underneath a peripheral portion of
- 6 said chuck.
- 1. 2. (Previously Presented). The plasma etching apparatus as in claim 1, wherein
- 2 said chuck is substantially circular and said focus ring peripherally surrounds said
- 3 chuck.
- 1 3. (Previously Presented) The plasma etching apparatus as in claim 8, wherein at
- 2 least a portion of said lower focus ring substantially continuously extends below a
- 3 peripheral portion of said chuck.
- 1 (Original) The plasma etching apparatus as in claim 1, wherein said chuck 4:
- 2 comprises an electrostatic chuck.
- 1 5. (Original) The plasma etching apparatus as in claim 1, wherein said hardware
- 2 comprises a focus ring composed primarily of quartz.
- 1 6. (Original) The plasma etching apparatus as in claim 1, wherein said hardware
- 2 comprises a focus ring formed of a ceramic.

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- 1 7. (Previously Presented) The plasma etching apparatus as in claim 1, further
- 2 comprising a further focus ring, said focus ring and said further focus ring forming a
- 3 focus ring set that peripherally surrounds said chuck.
- 1 8. (Currently Amended) A plasma etching apparatus comprising a chuck for
- 2 retaining a substrate and a focus ring set, at least one of said chuck and said focus ring
- 3 set formed of a material that includes oxygen therein such that said oxygen is released
- 4 when an etching operation is carried out, said focus ring set including an upper focus
- 5 ring that laterally surrounds said chuck and a lower focus ring disposed completely
- 6 below said upper focus ring and <u>directly</u> underneath said substrate.
- 1 9. (Previously Presented) The plasma etching apparatus as in claim 1, further
- 2. comprising said focus ring maintainable at a temperature no greater than a temperature
- 3 of said substrate while an etching operation is carried out upon said substrate.
- 1 10. (Original) The plasma etching apparatus as in claim 9, wherein said chuck
- 2 comprises an electrostatic chuck and said substrate comprises a semiconductor
- 3 substrate.
- 1 11. (Original) The plasma etching apparatus as in claim 9, wherein said focus ring
- 2 maintains contact with said electrostatic chuck and said electrostatic chuck is cooled
- 3 during said etching operation.
- 1 12. (Original) The plasma etching apparatus as in claim 11, wherein said focus ring
- 2 is disposed peripherally around said substrate and includes a portion that rests on an
- 3 annular landing section of electrostatic chuck.
- 1 13-28. (Cancelled)

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- 1 29. (Currently Amended) A plasma etching apparatus comprising a chuck for
- 2 retaining a substrate and a focus ring peripherally surrounding said chuck and formed of
- 3 a focus ring material that includes oxygen throughout the focus ring material, such that
- 4 said oxygen is released when an etching operation is carried out, wherein at least a
- 5 portion of said focus ring substantially continuously extends directly underneath a
- 6 peripheral portion of said chuck.
- 1 30. (Currently Amended) The [[A]] plasma etching apparatus as in claim 29, further
- 2 comprising [[a]] said chuck for retaining a substrate and formed of an oxygen-
- 3 impregnated material, and a focus ring peripherally surrounding said chuck.
- 1 31. (Previously Presented) The plasma etching apparatus as in claim 30, wherein
- 2 said chuck comprises an electrostatic chuck.
- 1 32. (Previously Presented) The plasma etching apparatus as in claim 31, wherein
- 2 said chuck is disposed within an etching chamber and further comprising said etching
- 3 chamber containing therein further hardware formed of said oxygen-impregnated
- 4 material.
- 1 33. (Currently Amended) A plasma etching apparatus comprising a chuck for
- 2 retaining a substrate and a focus ring set formed of a focus ring material that includes
- 3 oxygen throughout the focus ring material such that said oxygen is released when an
- 4 etching operation is carried out, said focus ring set including an upper focus ring that
- 5 laterally surrounds said chuck and a lower focus ring disposed completely below said
- 6 upper focus ring and directly underneath a portion of said said substrate, at least the
- 7 lower focus ring maintainable at a temperature no greater than a temperature of said
- 8 substrate while said etching operation is carried out upon said substrate.